

## ABSTRACT OF THE DISCLOSURE

The present invention is to provide an arrayed waveguide-embedded optical circuit with reduced loss at a groove and an optical functional element  
5 using for the arrayed waveguide-embedded optical circuit.

The arrayed waveguide-embedded optical circuit according to the present invention comprises a waveguide, a groove formed across the waveguide and two or more spot-size transformer pairs whose members face each other across the groove.